1. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(6, -7) \text{ and } (11, 6)$$

A. $m \in [-8.6, -1.6]$ $b \in [33.6, 36.6]$

B. $m \in [-0.4, 6.6]$ $b \in [18.6, 28.6]$

C. $m \in [-0.4, 6.6]$ $b \in [-22.6, -20.6]$

D. $m \in [-0.4, 6.6]$ $b \in [-11, -3]$

E. $m \in [-0.4, 6.6]$ $b \in [-15, -11]$

---

2. Solve the equation below. Then, choose the interval that contains the solution.

$$-12(-14x + 17) = -4(-19x + 2)$$

A. $x \in [1.94, 2.27]$

B. $x \in [2.17, 2.43]$

C. $x \in [-2.67, -2.23]$

D. $x \in [0.78, 1.12]$

E. There are no real solutions.

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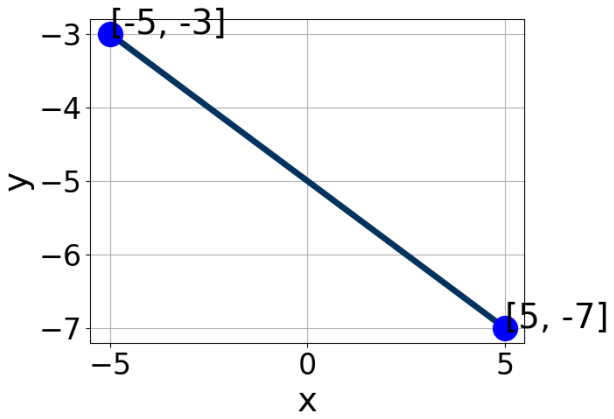
3. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [0.1, 1.5]$, $B \in [0.6, 1.8]$, and $C \in [-10, -1]$

B. $A \in [0.1, 1.5]$, $B \in [-1.4, 0.1]$, and $C \in [3, 7]$

C. $A \in [1.1, 4.4]$, $B \in [3.4, 7.4]$, and $C \in [-26, -24]$

D. $A \in [-2.2, -0.9]$, $B \in [-6.1, -4.8]$, and $C \in [20, 32]$

E. $A \in [1.1, 4.4]$, $B \in [-6.1, -4.8]$, and $C \in [20, 32]$

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4. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $6x - 7y = 13$ and passing through the point $(2, -5)$.

A. $m \in [1.13, 2.36]$ $b \in [-6.84, -4.95]$

B. $m \in [-0.01, 1.02]$ $b \in [-6.84, -4.95]$

C. $m \in [-0.01, 1.02]$ $b \in [6.69, 7.89]$

D. $m \in [-0.01, 1.02]$ $b \in [-7.39, -6.76]$

E. $m \in [-1.34, -0.72]$ $b \in [-3.91, -2.08]$

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5. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{4x - 5}{4} - \frac{5x + 5}{3} = \frac{-8x - 9}{8}$$

A. $x \in [-0.7, 1.1]$

B. $x \in [-4.8, -3]$

C. $x \in [5.2, 7.6]$

D. $x \in [2.8, 4.1]$

E. There are no real solutions.

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6. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $6x + 5y = 7$ and passing through the point $(-3, -10)$.

A. $m \in [-1.12, -0.75]$ $b \in [-14, -12.98]$

B. $m \in [-2.5, -0.92]$ $b \in [13.21, 13.82]$

C. $m \in [0.75, 1.71]$ $b \in [-6.99, -6.29]$

D. $m \in [-2.5, -0.92]$ $b \in [-14, -12.98]$

E. $m \in [-2.5, -0.92]$ $b \in [-7.27, -6.62]$

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7. Solve the equation below. Then, choose the interval that contains the solution.

$$-18(19x - 12) = -13(-15x - 14)$$

A. $x \in [-0.8, -0.54]$

B. $x \in [0.05, 0.16]$

C. $x \in [2.66, 2.9]$

D. $x \in [0.58, 1.12]$

E. There are no real solutions.

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8. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(9, 5) \text{ and } (10, -5)$$

A. $m \in [-12, -6]$ $b \in [-4, 0]$

B. $m \in [-12, -6]$ $b \in [-95, -91]$

C. $m \in [-12, -6]$ $b \in [93, 103]$

D. $m \in [-12, -6]$ $b \in [-16, -13]$

E. $m \in [8, 15]$ $b \in [-105, -102]$

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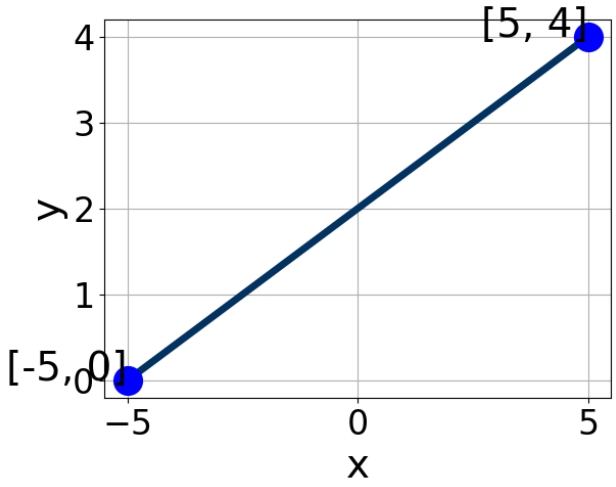
9. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-6.4, -1.5]$, $B \in [1.2, 6.5]$, and $C \in [4, 12]$

B. $A \in [0.8, 5.6]$, $B \in [-5.3, -3.1]$, and $C \in [-15, -5]$

C. $A \in [-1.3, -0.3]$, $B \in [-1.7, -0.3]$, and $C \in [-8, 1]$

D. $A \in [0.8, 5.6]$, $B \in [1.2, 6.5]$, and $C \in [4, 12]$

E. $A \in [-1.3, -0.3]$, $B \in [0.7, 3.9]$, and $C \in [1, 5]$

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10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{8x - 7}{5} - \frac{5x - 3}{4} = \frac{7x + 6}{7}$$

A. $x \in [-4.32, -1.32]$

B. $x \in [-5.63, -3.63]$

C. $x \in [-0.38, 2.62]$

D. $x \in [-16.38, -14.38]$

E. There are no real solutions.
